

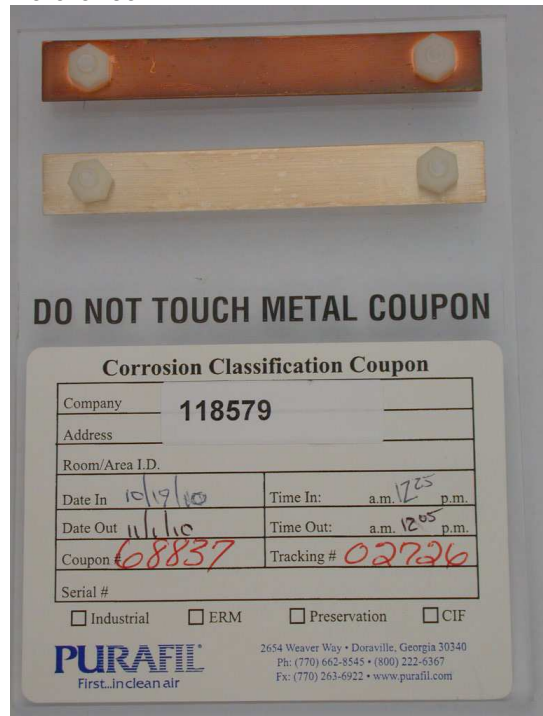
# PURAFIL ENVIRONMENTAL CORROSIVITY REPORT

18-Nov-2010

Company: 118579

Sales Order #: C002726  
CCC Panel #: P68837  
Date In: 19-Oct-2010  
Date Out: 01-Nov-2010  
Days In Service: 13

Room/Area ID:  
Reference #:



**DO NOT TOUCH METAL COUPON**

**Corrosion Classification Coupon**

Company <b>118579</b>	
Address	
Room/Area I.D.	
Date In <b>10/19/10</b>	Time In: a.m. <b>12<sup>05</sup></b> p.m.
Date Out <b>11/1/10</b>	Time Out: a.m. <b>12<sup>05</sup></b> p.m.
Coupon <b>68837</b>	Tracking # <b>02726</b>
Serial #	

☐ Industrial ☐ ERM ☐ Preservation ☐ CIF

**PURAFIL**  
First...inclean air

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**CCC Panel # P68837**

**ISA Class GX**  
Severe

**Copper Corrosion**  
2847 Å/30 Days

**Silver Corrosion**  
369 Å/30 Days

(see next page for complete analysis)

## Summary for PURAFIL CCC # P68837

The electrolytic reduction analysis on Corrosion Classification Coupon #P68837 shows the presence of extremely high concentrations of contaminants and the possibility of high/variable humidity in the environment tested. The hydrogen sulfide level is expected to be in excess of 50 ppb, sulfur dioxide greater than 300 ppb, and chlorine greater than 10 ppb. The presence of moisture and small amounts of inorganic chlorine compounds greatly accelerates sulfide corrosion. Electronic/electrical equipment is not expected to survive in this environment due to corrosive attack.

Your local representative for additional information and assistance is:  
Environmental Health and Eng  
117 Fourth Avenue, Needham MA 02494, USA  
tminegishi@eheinc.com

Purafil, Inc. / 2654 Weaver Way, Doraville GA 30340 USA / (770) 662-8545 / (770) 263-6922  
Email: purafil@purafil.com / Internet: <http://www.purafil.com>

Displaying Page 1 [Display Page 2](#)

## PURAFIL CCC # P68837 Analysis Results

Corrosion Film Composition				Gold Coupon - Magnified 20x
	Projections			
	30 Days	1 Year	5 Year	
Copper Films				
Cu <sub>2</sub> S	0 Å	0 Å	0 Å	
Cu <sub>2</sub> O	508 Å	1168 Å	2611 Å	
Unknowns	2339 Å	5373 Å	12015 Å	
Totals	2847 Å	6541 Å	14626 Å	
Silver Films				
AgCl	67 Å	815 Å	4076 Å	
Ag <sub>2</sub> S	302 Å	3679 Å	18396 Å	
Unknowns	0 Å	0 Å	0 Å	
Totals	369 Å	4494 Å	22472 Å	
Gold Pore Corrosion:				
Note: 1000 Å = 0.1 micron				

**Equipment Reliability Correlation**  
(ISA Standard S71.04-1985 for Copper)

